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W9KJF

MAY - 1964

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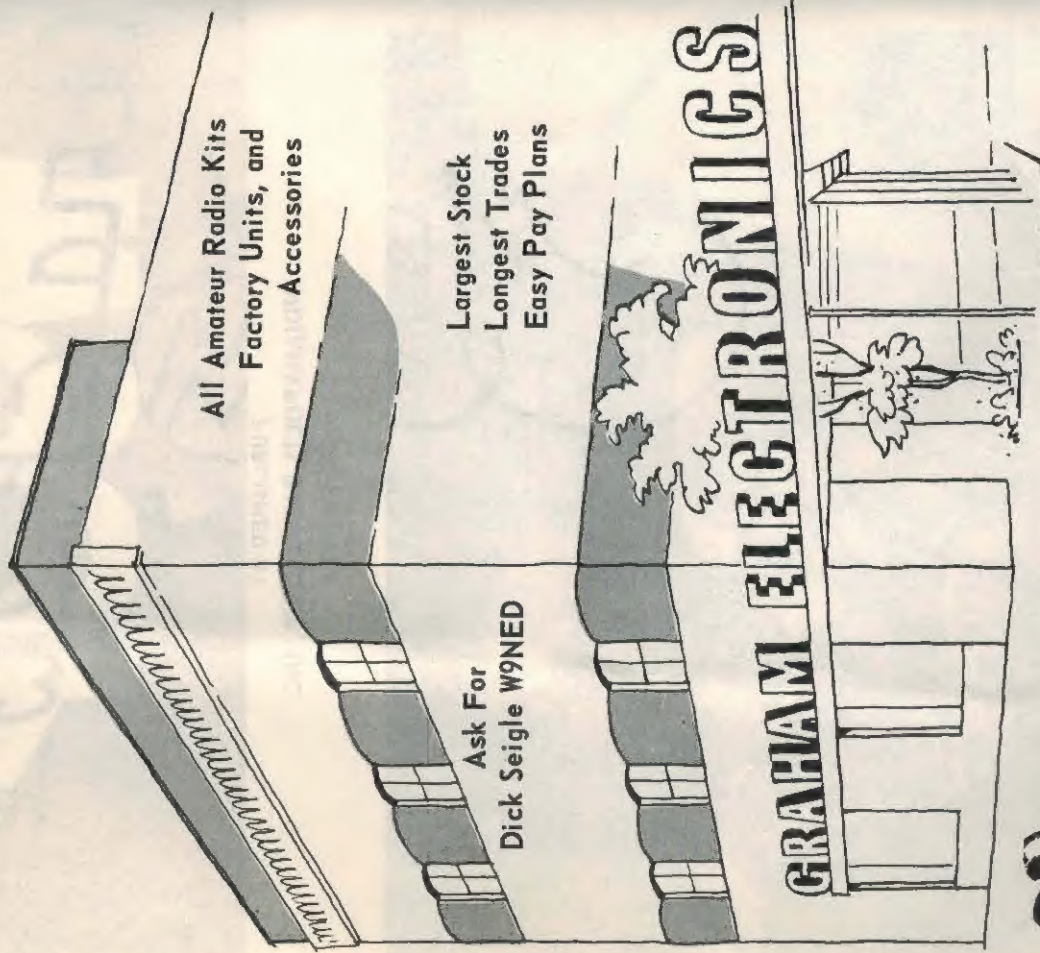
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PLENTY OF FREE PARKING

The Indianapolis Radio Club meets on the second and fourth Fridays of each month except July and August in the Indianapolis Park Board Building at 29th and Harding Streets. Meetings start promptly at 8 p.m. EST.

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Publication is on the third Friday of each month, with all news items and ads due no later than the first Friday of each month.

Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50 cents each.

Ama-Chewer welcomes the forwarding of information on coming events and activities of other clubs for publication.

\* \* \* \* \*



As you will note in the Program Preview, that time-honored institution, Home Brew Night, will be May 8. This is an event which, I feel, should be participated in by every club member.

Many of us have very little time or facilities for building a receiver or transmitter, but surely everyone has something that can not be bought from a catalog or over the counter at the local radio emporiums, and of which he feels justly proud.

Don't be ashamed to bring it, no matter how uncomplicated it may seem, for fear you will be put to shame by some more elaborate gear.

I can think of no more cohesive force to bind together a club than the discussions about homebrewing and its attendant difficulties. These discussions, I feel, are becoming all too infrequent in these days of commercial gear.

In the early days these bull sessions were the backbone of every club meeting, and I can't help but feel that the hams were a more closely-knit group because of it.

So bring it along and do your part to revive a healthy interest in do-it-yourselfing.

73 DE W9APJ

\* \* \*

## NEW SCHOOL RADIO CLUB

An amateur radio club is being formed at the new Northwest High School, and members of the IRC have been asked for help.

Bob Calkins, the club sponsor, reports that 12 pupils have shown an interest in getting the club started. Four of them have ham licenses and the others are studying for theirs.

If you have any suitable equipment which the club members might put to good use, Calkins would like to hear from you. His phone is CL 5-9472.

The Ninety-Nines Airlift, of which you have read in previous issues of the Ama-Chewer and heard of at club meetings, got off to a very pleasing start on Saturday, April 4, at Metropolitan Airport north of Indianapolis. Ninety-Nines members and volunteers manned six planes and carried 531 passengers who paid a penny-a-pound of their weight as a donation to the state airmarking program. A strong, gusty, crosswind was a nuisance to the pilots (some of them used stronger words describing it), but excellent visibility gave the passengers a clear view of the surrounding countryside.

Jim Rees, K9YKH, loaned his Clegg 99er for experimental use aboard a plane, and John Jones, W9FZW, operated it from a Tri-Pacer piloted by Katie Sage, a Ninety-Nines member. (See cover picture.) After correcting a few minor problems, such as a short circuit in the power cord, John had the rig operating like it was built just for this job. He maintained communications with Walt Smith, WA9BHV, at his home station, and with K9KTL at the airport while flying over northern Indianapolis, and made contact with other stations, including WA9CYG at the Blind School and a WØ operating portable in 9-land.

The next day, despite chilly temperatures and a heavy overcast, an enthusiastic crowd turned out at Muncie for an airlift there. K9PYW, W9CVD and others at Muncie provided communications for the Ninety-Nines there and maintained contact with Ninety-Nines members in Indianapolis through WA9BHV and K9KTL.

Amateurs also have been handling routine traffic on nets as the Ninety-Nines have been organizing these airlifts over the state, and so far the communication service has been working quite well. The IRC is indebted to numerous hams over the state for their help with this club project.

\* \* \*

The Canadian Department of Transport (DOT) has announced that applications for amateur mobile authorizations from U. S. amateurs now will be processed through the Regional Director of Air Services, Dept. of Transport, at the office nearest the area of proposed operation. A list of Regional Directors will be sent when your application is received.



April 24

If you have questions concerning FM, here is the chance to get answers. Walt Smith, WA9BHV, communications electronics engineer for the Southern District of the New York Central Railroad, will talk on "FM, What Is It?" Walt should certainly be familiar with his subject, judging from the fancy gear under his care that squirts the stuff up and down the railroad right-of-way and back and forth across the Avon yards.

May 8

Get busy on that piece of gear you've been intending to build. The annual homebrew night is upon us again, complete with a \$5 prize for the winner and fame and glory for all contestants. Even if your homebrew project doesn't work, bring it along and explain why it refuses to perk.

May 22

If you still haven't got it working, put it up for sale at the annual auction. There will be prizes, bargains beyond comparison and ~~suckers~~ buyers panting to purchase your junk gear.

\* \* \*

LICENSE EXAMS

The next amateur license examinations to be given in Indianapolis will be in Room 526 of the Federal Building on May 15. Commercial exams will be in the same room on May 14. The announcement from the FCC Chicago office did not state the beginning times.

Remember, license fees are now required (pending possible court action) with all applications. Amateur applications cost \$4. The FCC requires you to send this amount, in check or money order, made payable to the Federal Communications Commission, with your application to the FCC at 826 U. S. Court House, Chicago, Ill. 60604. An FCC Form 79 will be mailed, after they receive your application and fee, giving the place, date and hour you are to appear for examination. This form will be your admittance to the examination room.

The valuable assistance provided by amateur radio operators following the Alaskan earthquake is known to nearly everyone. Several IRC members who also are active in the new Red Cross Radio Club helped in handling messages concerning persons in Alaska at the time. Details on who did what are not available at this time, but it might be well to review the ways in which hams can best help out in such a situation when they are some distance from the scene of the disaster. This is best summed up in the following bulletin issued by the ARRL shortly after the earthquake occurred.

Special WIAW Bulletin Nr 662 from ARRL Headquarters Newington Conn March 29 1964 to all radio amateurs -- Thanks to amateurs standing by to permit Alaska stations to clear their outgoing traffic, a volume of assurance messages appears to have been handled in the last 24 hours. ARRL requests and urges amateurs generally to assist keeping channels used by KL stations clear to give priority to outgoing traffic. There are limited number of Alaskan stations. In most cases of displaced persons it may take several days for official agencies to locate them and verify their safety. Persons with a special interest are asked to watch the press for information from the disaster areas. Instead of filing individual radio traffic to Alaska any such inquiries should be via ones local Red Cross chapter to make inquiry official. Personal air mail letters to Alaska are recommended. For the next four or five days outgoing radio traffic will have precedence above ingoing health and welfare inquiries.

\* \* \*

VAN SICKLE SPECIALS

Lafayette Transceiver	\$ 29.00
50 Watt Globe Scout	\$ 39.00
150 Watt Johnson	\$ 79.00
200 Watt Johnson Valiant	\$199.00
Heath Apache TX-1	\$199.00
9 Tube Hallicrafter Receiver	\$ 39.00
\$139 Hallicrafter SX-140	\$ 79.00



March 13

Frank Owens, K9MMG, and Hart Ward of the Murray Carson Co. explained and demonstrated the new cavity generator, a new kind of hi-fi speaker, developed by their company. It was truly a remarkable demonstration of an amazing little gadget. You never heard so much fi come out of such a small box in all your born days. It is hoped Frank can arrange a discount for club members in the near future.



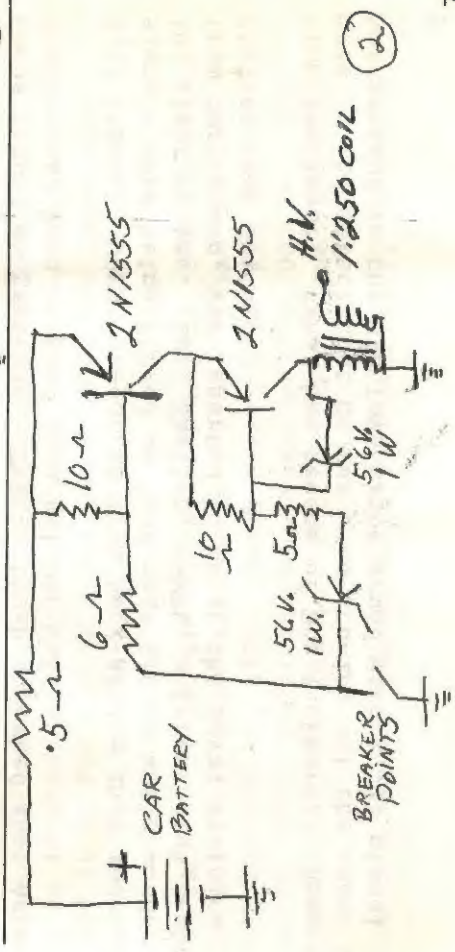
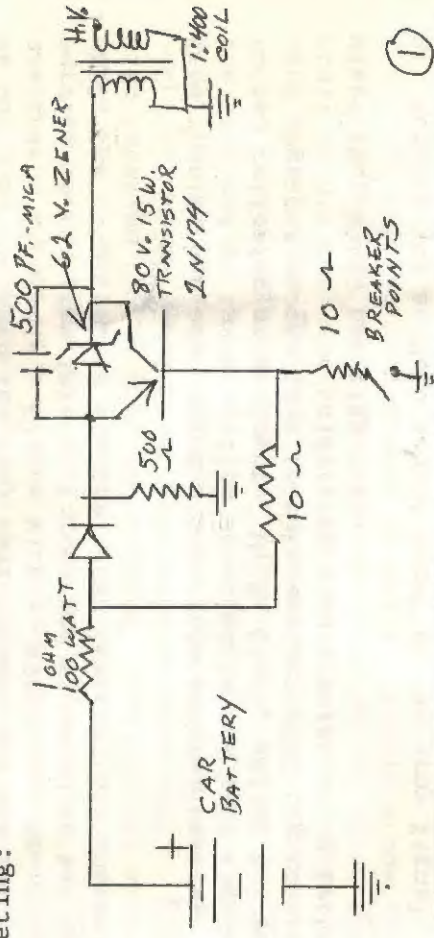
March 27

Dick Judkins gave a very interesting and informative talk on transistorized ignition systems. He started by enumerating the requirements of any ignition system, and explained how a conventional system meets these requirements. He said the one big advantage of the conventional system is simplicity which makes for greater reliability. He quoted one of Angus' favorite sayings that "Zero components mean infinite reliability." He also enumerated the many disadvantages of the usual systems, namely, tendency to miss at high RPM, point

wear, condensor breakdown, and voltage drop off at high speeds because primary current can not build up to needed values.

By using a transistor as a switch, with the breaker points to control the transistor, along with a coil of higher ratio, many of the shortcomings of the conventional system are overcome. The points have a much longer life because they are required to handle far less current in a purely resistive circuit. The condensor is not needed. The lower inductance of the coil allows the primary current to build to a maximum even at high speeds, thus maintaining a higher potential at the plugs.

Dick is shown in the picture at left explaining the ignition ~~last~~ system in his car to a couple of the club's hot-rodders. We had hoped to print his circuit for a transistorized dwell angle meter and tachometer, but space did not permit. We'll try to get it in the next issue. Meanwhile, here are the ignition circuits he explained at the meeting:





20 YEARS AGO

By Bob Caskey, W9DNQ

Officers of the IRC elected to serve in 1943 were: President, LeRoy Waggoner; Vice President, Alvey Pittman; Secretary, Paul Nelson; Treasurer, Bill Lueth; Chief Operator, Fred Manning; Directors, R. K. Caskey and D. M. Davis. The editorship was again taken over by this writer, who by then was in the Enlisted Reserve Corps as a T5. He had tales to tell about meeting with Nelson Trusler (oops) Lt. Trusler at Ft. Monmouth, where the Lt. lived on the ocean front in a former plush hotel recently taken over by the Army. There he would meet with DNQ and together they would stroll down the boardwalk and talk. The Lt. had to salute the enlisted men with an arm sore from shots he had taken for overseas assignment. Further reports from those in service included Robert Sylvester, W9YZU, who called from Ft. Harrison, where he was awaiting assignment. The Brown boys, Tech sergeant and Staff sergeant, had their pictures in the paper. Joe Christy, W9MPR, Radioman 2nd Class, was at club on leave. He had just finished the Navy Radio School and was awaiting assignment to a ship. Claude Richie, W9KTU, was doing wire service in the Army foreign forces and reported he had heard WMDZ, the local police station, down there at his unspecified location.

Fred Manning had been noted absent from several meetings of the club and an investigation revealed he had been confined to bed following an accident. W. B. Clark, W9JTY, had gathered together enough gear to make another WERS rig to install in his car. He calibrated a wave meter using Lecher wires that W9AQQ had rigged up.

Art Schultz was an "old school marm" at the Army Signal Corps School on Keystone. Then a flash reported that Arnold Finchum had been married to a gal out WEST.

Bill Hibbert, W9ENJ, reported from Dark Africa that American signals were being picked up, and that Africa was a wonderful sight to see. Earl Shelton, W9MFK, a former club member from Morristown, was reported to be at the Naval Training Station near Chicago.

From Amachewer: "What has become of Doc Pickhardt? Hear rumors to the effect that he was seen cruising off the coast of Switzerland in the Old Town canoe armed with a .22 pistol

and a five gallon jug of Aromatic Essence Old Chain Lighting and when stopped and questioned he claimed he was on his way to attend the annual convention of Plain and Fancy Swiss Yodelers."

\* \* \* \* \*

#### DID YOUR LOGIC CIRCUIT WORK?

Only two answers were received to the logic problem published as a puzzle in last month's Ama-Chewer. Our leader, W9APJ, and Ward Studor, WA9CCX, submitted the correct answer, which was W7PQR. One wise guy, who shall remain nameless for reasons of mercy, said "There is no answer, April Fool!" Sorry, buddy, but there is an answer, and you get it by eliminating the operators who couldn't have received the message this way:

W7DEF -- The message was received during the day because W5MNO had the curtain down to keep the sun out of his eyes. W7DEF worked in a shoe store during the day.

W8CHI -- He was on the air only from 9 to 11 p.m.

W6ABC -- The message was sent at 10:00 and received at 10:01, a total of one minute. It contained 30 words, so was sent at more than 30 wpm. W6ABC could copy only 15 wpm.

W9JKL -- The operator receiving the message noted the time on his watch across the room. W9JKL was nearsighted, so he couldn't have done this.

W5MNO -- He had a broken arm and was eating crackers while the message was being sent. This wouldn't have left him a free hand to copy the message with.

W7PQR -- He is the only operator left, and nothing was said which would disqualify him as receiver of the message.

Do you want more puzzles? Some members seem to enjoy them as an interesting mental challenge. If you have a favorite, send it in for use in a future issue of the Ama-Chewer.

\* \* \* \* \*

FOR SALE -- DX-100 with grid block keying, continuous loading and front panel xtal socket, \$100. Globe DSB 100, VFO 755A and VOX 10, \$100. Heath Toner, \$25. RME VHF 152 converter, \$20. Four-band Navy receiver 200-2000 kc., \$20. K90FG, RFD 2 Box 20A Mooresville 46158 Phone VE 1-3008

WANTED -- Hammarlund HQ-129X. Walter Pliley, TW 8-8132



# ARRL BULLETINS

Official Bulletin Nr. 940 March 12  
FCC has begun issuing amateur licenses with its new electronic data processing equipment. Conversion to the new system has involved unavoidable delays in handling amateur applications the past few months, but it is expected that the backlog will be cleaned up in a few weeks. Applicants for renewal who filed before expiration date may, of course, continue to operate even beyond the expiration date. Applicants for new licenses are urged to be patient a short additional time.

Official Bulletin No. 941 March 19  
Mexico City will be the host city for the First Pan American Congress of Radio Amateurs slated for April 15 through 18, 1964. Included on the agenda is a diversified program of technical discussions, social activities, and a meeting of representatives of IARU member societies in Region II to form a strong hemispheric organization. All amateurs are encouraged to attend and participate. Additional information may be obtained by writing to the Secretary, Liga Mexicana de Radio Experimentadores (LMRE), P. O. Box 907, Mexico 6, D. F.

Official Bulletin Nr. 942 March 26

The Staib expedition will soon be crossing the Arctic Sea and North Pole on skis. The explorers will be in contact with their homes in Norway only through good conditions and amateur cooperation for clear frequencies. They hope to work with nets established at home by the Norwegian Radio Relay League on 7014, 7045, 14,100, 14,115, 14,120 and 14,340 kc. The calls used will be LI2C, LI2C/2, LI2C/3 and LI2C/4. Amateurs are urged to cooperate with the expedition and keep the frequencies clear when they are trying to work with the NRRL networks.

Official Bulletin Nr. 943 April 2  
Amateurs are reminded that applications for new, renewed or modified licenses must now be accompanied by a check or money order payable to the Federal Communications Commission. The fee is four dollars for new, renewed or renewed and modified licenses; two dollars for modification only, such as change of address, and twenty dollars for special call signs. No charge is made for Novice licenses, RACES authorizations or military recreation stations. All applications must be

on FCC Form 610 dated August 1963, older forms may not be used. Except where FCC-supervised exams are involved, applications should be sent to the FCC, Gettysburg, Penn. 17325

\* \* \*

## CATALOGS NEEDED

Jim Sugioka, W9CKB, passes along the word that foreign missionaries are having trouble getting catalogs from radio supply houses in this country. He suggests you send any spare catalogs you have to one or more of the following:

Bernard Davis B. P. 178 Coquilhatville Republic of The Congo West Africa	Harry Felkel (9Q5KF) I. M. E. Kimpese via Leopoldville Republic of The Congo West Africa
Ralph Q. Adams (ZP7BJ) Coronel Oviedo Paraguay South America	

Mark the packages "Book Post" for the most favorable postage rate. Incidentally, these fellows can use transmitting and receiving gear also. Ask Jim for details on what sort of equipment they can use.

\* \* \*

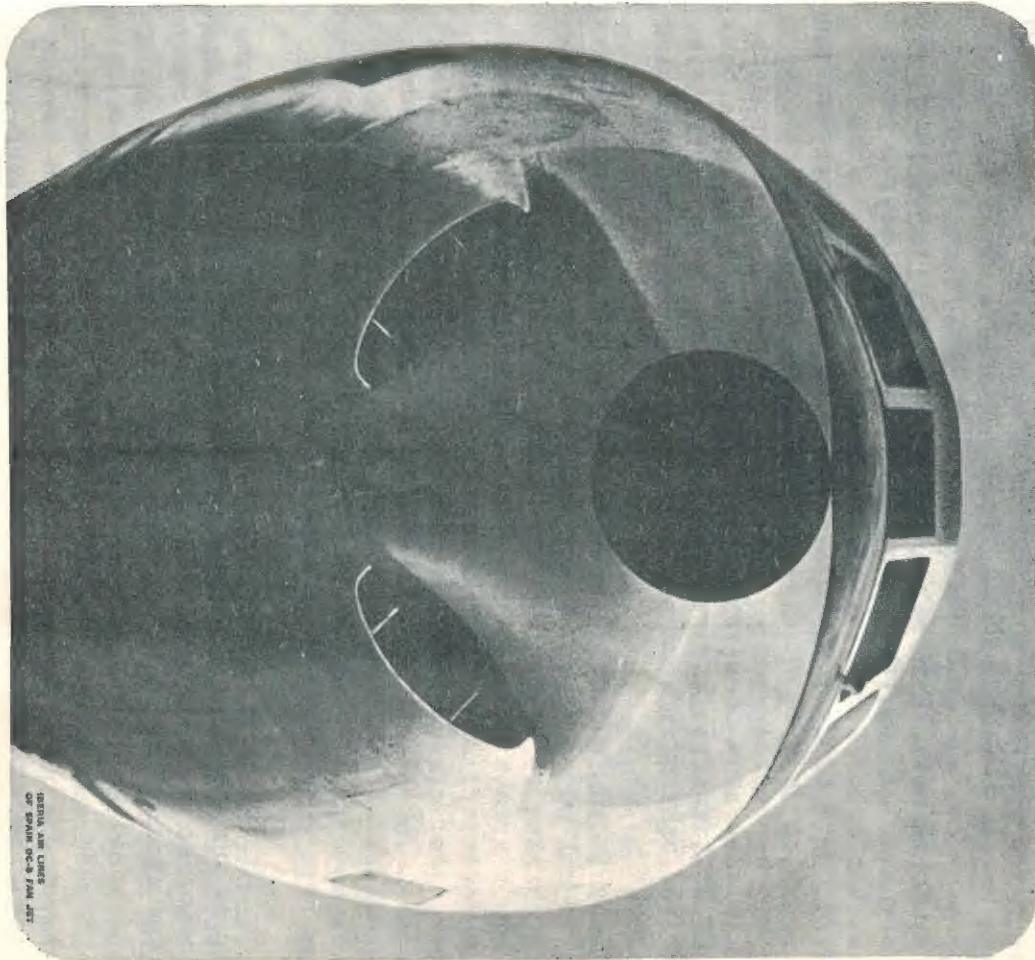
## GRAHAM ELECTRONICS SUPPLY PRE-INVENTORY SALE NEARING COMPLETION SALE ON UNTIL APRIL 25 COME IN NOW FOR BIG CASH SAVINGS

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